### Distributed Generation (DG) Regulatory Issues

Overcoming Market Rule Barriers: The Key to a Mass Market for DG

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#### The Many Faces of DG at KeySpan

- Across the KeySpan Family, DG Is Simultaneously and Independently Viewed From Different Vantage Points
  - Source of Increased LDC Throughput and Revenues
  - Market for Engineering, Construction and Operating Capabilities
  - Hedge Against Electricity Price Volatility
  - Expansion of Company's Generation Portfolio



## **KeySpan Is Well Positioned for the DG Market**

- ★ KeySpan Can Benefit From Several Potential "Value Streams" -- Unsurpassed by Any of the Competition
  - Increased LDC Revenues
  - Engineering and Construction Services
  - Maintenance Services
  - Substitution of Higher-margin LDC Sales for Wholesale Generator Gas Sales
  - Provide "Holistic" Approach to Customer Energy Costs By KeySpan's Unique Position to Manage "Btu Convergence"



# Market Realities Enhance DG Opportunities

- ★ Easier to Build Generation Than Transmission Lines
- ✓ 90% of Customer Outages Are T&D Related Mostly "D"
- ✓ Over 75% of Generating Capacity Is 30+ Years Old
- ✓ DG Has Short Lead Times and Can Better Match Actual T&D
  Capacity Requirements
- ✓ Small DG Is Usually Treated As a "Load Modifier" Avoiding the Purchase of ICAP Reserves for Customer Load
- ✓ DG Can Be Installed Without ISO Review (<10,000kW) Avoiding Lengthy and Costly Approval Process
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#### Overcoming Market Rule Barriers: The Key to A Mass Market for DG

- ★ The Difference Between a Niche Market and a Mass Market
- ✓ Some Progress Has Been Made, but Much More Must Be Accomplished
- ✓ National and Local Concern Over Energy Have Created a Window of Opportunity
- ✓ Significant Resources Are Required to Be Successful



#### **KeySpan Is Already Influencing Change**

- ✓ Aggressively Pushed the Development and Approval of the NYISO's Very Successful Demand Response Effort, Now Widely Viewed As "Best-in-class" in the Northeast.
- Actively Engaged Through DPCA in Assuring That Effective Interconnection Standardization Language Is Accepted in NY and Other States, As Well As in Congressional Restructuring Efforts
- ★ Representing DG Interests in NYPSC Generic Proceeding on Standby Rates and DG "Benefits



#### **KeySpan-sponsored Accomplishments**

- ✓ Interconnection Standardization New York, Delaware, New Jersey
- ✓ "Pre-certification" of DG Designs and Installations in New York. Has Become the Testing Model for UL and Other States
- **№ Demand Response Programs PJM, NYISO, NYPSC**
- **№ NYSERDA Funding for Demand Response**
- **№ RFQ Process Agreed to by NY TOs That Allows DG to Compete Against T&D Investment**
- ★ Federal Legislative Language Proposed and Accepted by House Committee to Allow Federal Agencies to Participate in Demand Response Programs at ISO Level



### A Comprehensive Approach Is Required to Facilitate a Market Transformation

#### **✗ Regulatory** - State

- Interconnection Standardization
- Standby Rates and Applicability
- Access to Energy Markets Through Demand Response Initiatives
- Delivery of Accurate Real Time Price Signals Including Distribution Congestion Costs and Distribution Losses
- Use of Distribution Assets to "Wheel" Excess Power to Others
- Streamlining of Siting/permitting, Including allowance for "Stakeholder" Process



### A Comprehensive Approach Is Required to Facilitate a Market Transformation

- ★ Regulatory Federal / FERC / Grid Market Rules / Regional Transmission Organization (RTO)
  - Northeast RTO Order / Mediation / Business Plan July Sept. 2001
  - FERC Decision on Northeast RTO Authorization
  - NERTO Implementation (12 48 Months)
    - Market Design (Energy, Capacity, Ancillary, Demand / Load Response / DG / Renewables / Alternate), Transmission Planning, Interconnection, Tariffs
    - Governance (Transitional / Permanent, Independent Board, Stakeholders Advisory)
    - Roll-out of Market Institutions
  - DR/DG In Other RTOs Can Affect Market Rules in NERTO (SE, Midwest, West)
  - Transitional Operation of Existing ISO DR/DG Programs
- Grid Reform Legislation



### A Comprehensive Approach is Required to Facilitate a Market Transformation

#### ★ Legislative - Federal and State

- Interconnection Standardization
- Emissions Trading
- Point-of-use Emissions Accounting
- Distribution Wheeling
- Power Park Exemptions to Service Franchise Restrictions
- Grid Reform (Enhance Role of DG)

